

M 7.5, 42 km NE of Anamizu, Japan

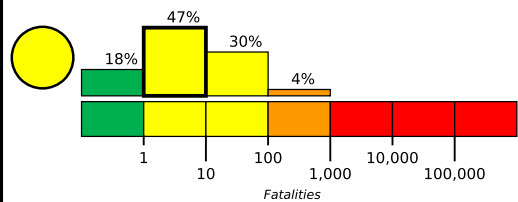
Origin Time: 2024-01-01 07:10:09 UTC (Mon 16:10:09 local)  
Location: 37.4976° N 137.2416° E Depth: 10.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

PAGER Version 3

Created: 2 hours, 9 minutes after earthquake

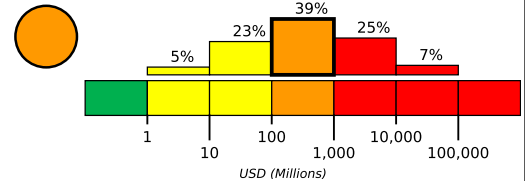
Estimated Fatalities



Orange alert for economic losses. Significant damage is likely and the disaster is potentially widespread. Estimated economic losses are less than 1% of GDP of Japan. Past events with this alert level have required a regional or national level response.

Yellow alert for shaking-related fatalities. Some casualties are possible.

Estimated Economic Losses

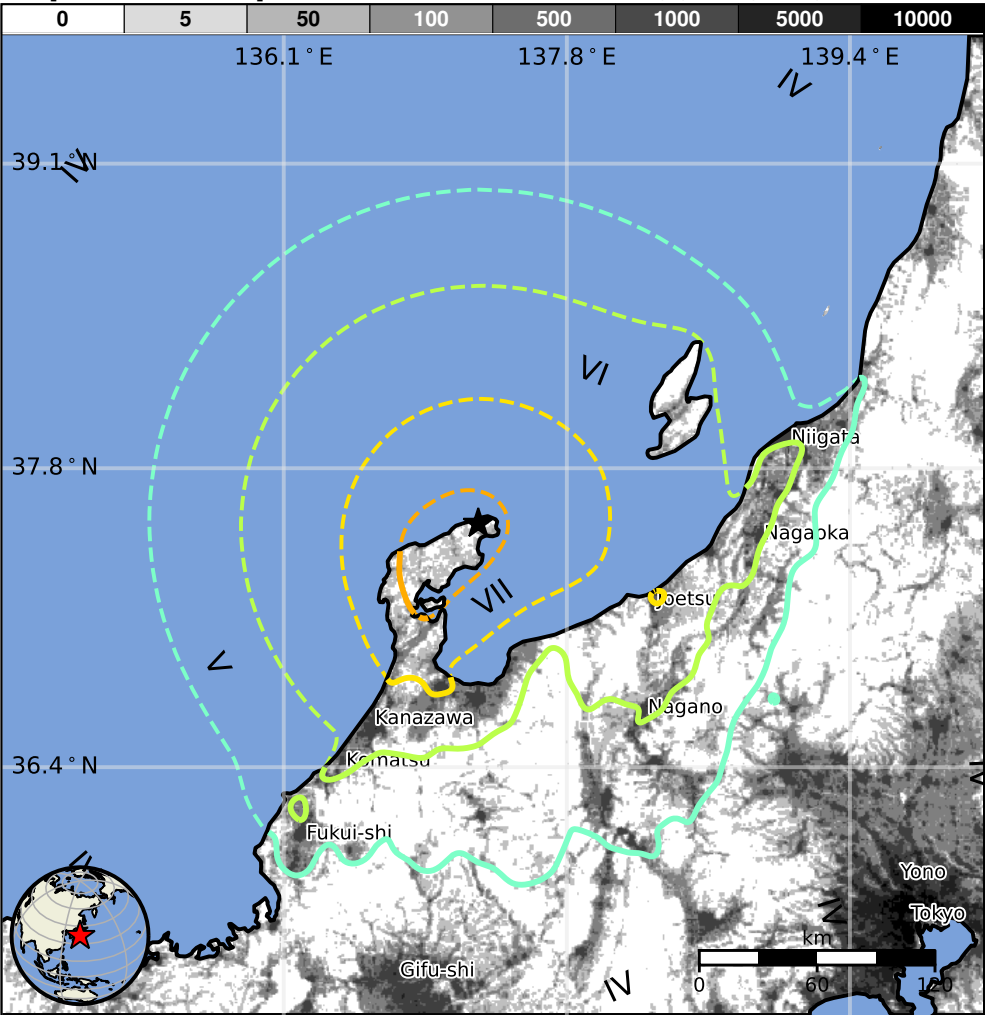


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	—*	44,292k*	3,185k	3,775k	536k	120k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1984-09-13	189	6.2	VIII(3k)	24
2007-07-16	107	6.6	IX(6k)	9
1995-01-16	381	6.9	IX(1,740k)	6k

Recent earthquakes in this area have caused secondary hazards such as tsunamis, landslides, fires and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VIII	Nanao	45k
VII	Hakui	25k
VII	Himimachi	55k
VII	Joetsu	204k
VII	Nishishinminato	36k
VII	Takaoka	170k
VI	Niigata	505k
IV	Saitama	1,193k
IV	Yokohama	3,574k
IV	Tokyo	8,337k
IV	Chiba	920k